

L5 ANSWER 8 OF 20 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC

AN 2000-279129 BIOSIS

DN PREV20000279129

TI Mutated proteins encoded by a lentivirus mutated

AB FIV is a lentivirus of domestic cats that causes

neurologic disorders which are remarkably similar to those found in HIV-1

infected people. Using feline neuron cultures, we investigated the

potential of both FIV virus and FIV-Env protein to

cause neuronal damage through the excitotoxicity mechanism. The neuron

swelling and acute dephosphorylation (LDH) release assays were used as

measures of cellular damage. The effects of FIV-Env protein on

glutamate receptor modulation increases intracellular calcium were also

examined. We found that FIV-Env protein induced a significant increase in

LDH release from the neuron cultures.

Additionally, an increase in neuron size was detected in the cultures

exposed to the virus, while swelling did not occur with exposure to either

saline, denatured virus, or FIV-Env by itself. However, when

both 20 nmol glutamate and the FIV-PPR Env protein were added

to the culture, a significant increase in neuron cell size was observed.

The NMDA calcium signals were similar in general form between the control

and FIV-PPR Env exposed cultures. However, the FIV-

PPR Env protein treated cultures resulted in significant enhancement of

the NMDA induced calcium signal. Our results indicate that FIV

Env protein (either within the virus or bivalently expressed) induced

neurotoxicity as measured by neuron swelling and LDH release assays and

that exposure of feline neurons to FIV-Env protein

alters the handling of intracellular calcium. These findings help

to validate the FIV cat system as a potential animal model for

evaluating therapeutic approaches that target the excitotoxicity

mechanisms of lentivirus induced CNS disease.

IN: Paricco, Gianfranco, Somoio, Pierre

PA: Centre National De La Recherche Scientifique (Cnrs), Fr

SO: PCT Int Appl, 37 pp

CODEN: PXXD2

DI: Patent

LA: French

FAN: CNR 1

PI: WO 96/03577 A1 1996-01-03 WO 1996-FR449 19960326

W: CA, JP, US

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NI, PT, SE

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T1 Development of an Res. independent, human immunodeficiency virus-derived vector system
SO HUMAN GENE THERAPY, (2001 Mar 15) 12 (7) 847-57
Journal code A12, 9008950 ISSN 1043-0342
- 1,6 ANSWER 19 OF 122 MEDLINE
T1 Correction of deficient CD34+ cells from peripheral blood after mobilization in a patient with congenital erythropoietic porphyria
SO MOLECULAR THERAPY, (2001 Mar 15) 12 (7) 841-51
Journal code DRT, 10096781 ISSN 1525-0016
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Meeting Info. 43rd Annual Meeting of the American Society of Hematology, Part 2 Orlando, Florida, USA December 07-11, 2001
ISSN 0006-4971
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T1 In vitro assembly of feline immunodeficiency virus capsid protein
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- T1 Domains in the simian immunodeficiency virus gp41 cytoplasmic tail required for envelope incorporation into particles
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T1 Tropogran 95, an amino acid residue of the Canine arthritis encephalitis virus, is essential for virus replication
SO VIROLOGY, (2001 Feb 15) 280 (2) 232-42
Journal code NEA, 0110674 ISSN 0042-6822
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- 1,6 ANSWER 27 OF 122 CAPLUS, COPYRIGHT 2002 ACS
T1 Pseudotyped retroviral vectors by replacing the envelope glycoprotein with the lymphocytic choriomeningitis virus glycoprotein to increase host cell range
SO Eur. Pat. Appl., 69 pp
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SO Eur. Pat. Appl., 28 pp
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T1 Inactivation of a feline immunodeficiency virus (FIV) genome by a feline immunodeficiency virus type 1 that contains a catalytically inactive integrase gene
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T1 The interaction of vif with uracil DNA glycosylase modulates the human immunodeficiency virus type 1 in vivo mutation rate
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- 1,6 ANSWER 33 OF 122 MEDLINE DUPLICATE 14
T1 Cellular and viral specificities of human immunodeficiency virus type 1 vif protein
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Journal code KCV, 0113724 ISSN 0022-538X
- 1,6 ANSWER 34 OF 122 MEDLINE DUPLICATE 15
T1 Mutation of a conserved residue (D121) required for oligomerization of human immunodeficiency virus type 1 Nef protein abolishes interaction with human immunodeficiency virus type 1 Nef protein and its biological functions
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- T1 Potent inhibition of human immunodeficiency virus type 1 replication by conditionally replicating human immunodeficiency virus-based lentiviral vectors expressing envelope anti-sense mRNA
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T1 Characterization of an internal RNA structural entry segment in the 5' leader of HIV-1
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T1 VSV-G pseudotyped feline immune deficiency virus (FIV) vectors are expressed in K 562 cells but not in other leukemic cell lines or primary
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T1 The long cytoplasmic tail of gp41 is required in a cell type-dependent manner for HIV-1 envelope glycoprotein incorporation into virions
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CODEN PFXND2
- 1,6 ANSWER 46 OF 122 CAPLUS, COPYRIGHT 2002 ACS
T1 Application of competent pseudotyped lentiviral vectors lacking matrix protein and uses thereof
SO PCT Int. Appl., 54 pp
CODEN PFXND2
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T1 Equine infectious anemia virus-based retroviral vectors
SO PCT Int. Appl., 124 pp
CODEN PFXND2
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.....User Break.....
- T1 The feline immunodeficiency virus vif gene is required for productive infection of feline peripheral blood mononuclear cells and monocytic-derived macrophages
SO VIROLOGY, (2000 Jul 74) 11) 25-30
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T1 Lentivirus-based vectors for transfer of genes to non-dividing cells and their use in gene therapy
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Journal code HIV_2985121R ISSN: 0021-9258
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T1. Replication in goats in vivo of caprine arthritis-encephalitis virus deleted in vif or tat genes: possible use of these deletion mutants as live vaccines
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T1. Neurologic dysfunction caused by a molecular clone of feline immunodeficiency virus, FIV-PPR
SO. JOURNAL OF NEUROVIRROLOGY, 1996 Dec 2; 6:388-96
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SO. PROTEIN EXPRESSION AND PURIFICATION, SEP 1996 Vol 8, No. 2, pp 238-246
ISSN: 1046-5928
16. ANSWER 81 OF 122. MEDLINE
T1. Effect of point mutations in the N terminus of the lentivirus lytic peptide-1 sequence of human immunodeficiency virus type 1 on Env stability
AB. The immunodeficiency virus type 1 (HIV-1) lytic peptide-1 region of the immunodeficiency virus type 1 (HIV-1) is critical for the virus to infect cells. We examined the effect of point mutations in the steady-state, cell-associated levels of the Env precursor and gp120, as opposed to the wild-type virus. The altered Env phenotype resulted in severely impaired virus infectivity and gp120 incorporation into this mutant virus. Analyses of additional mutants with deletions in the N terminus of the Env precursor showed that the N terminus of the lentivirus lytic peptide-1 region is critical for Env steady-state expression. These results indicate that the N terminus of the lentivirus lytic peptide-1 region is critical for Env steady-state expression. Among the mutant viruses encoding Env proteins in which residues Val-832 and Val-833 were individually substituted by nonconserved amino acids Ala, Ser, or Pro, which were exhibited significantly reduced steady-state Env expression. Pulse labeling and pulse-chase studies demonstrated that the Delta 830, Delta 833, and 833P mutants of Env proteins degraded more rapidly in a time-dependent manner after biosynthesis than did the wild-type Env. The results indicate that residue 830 and 833 mutations are likely to induce a conformational change in Env that targets the mutant protein for cellular degradation. Our study has implications about the structural determination of Env at the N terminus of the lentivirus lytic peptide-1 sequence of gp120 that affect the rate of Env in virus-infected cells.
16. ANSWER 82 OF 122. MEDLINE
T1. Effect of point mutations in the N terminus of the lentivirus lytic peptide-1 sequence of human immunodeficiency virus type 1 on Env stability
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16. ANSWER 83 OF 122. MEDLINE
T1. Replication in goats in vivo of caprine arthritis-encephalitis virus deleted in vif or tat genes: possible use of these
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16. ANSWER 99 OF 122. MEDLINE
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IE SILTY, LV, FLRO

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US 2001010816 A1 20010802
PRAI US 1998-97645P P 19980824
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13. ANSWER TO 3 SCISEARCH COPYRIGHT 2002 ISI, R
AN 91216346 SCISEARCH
GA The Genuine Article (R) Number FC046

ALL: SHAW, S. F. (ed.), ROBERTSON, D., ROBINSON, W. F., ALEXANDER, R., SUTHERLAND, R.

C/S MURDOCH UNIV. SCH VET STUDIES, MURDOCH, WA 6150, AUSTRALIA

LYA AUSTRALIA
 SO AUSTRALIAN VETERINARY PRACTITIONER, 20, No. 4, pp. 194-198
 DT Article; Journal
 ES AGRI

LA. ENGLISH
REC No References Keyed
• ABSTRACT IS AVAILABLE IN THE ALL ANDIALL FORMATS •

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13. ANSWER 3 OF 3 SCISEARCH COPYRIGHT 2002 ISI, R
AB Serum samples ($n = 141$) collected from clinically ill cats

for which detailed case records were available, were tested for FIV and FeLV to identify the diseases associated with FIV infection. There were no statistically significant associations between FIV positivity and the occurrence of an animal, mucosal surface

Flu positivity and the occurrence of arthralgia, muscular aches, inflammation and infection, neoplasia, lymphadenomegaly, pyrexia, or opportunistic infections. However, there were positive trends based on odds ratio towards association of HIV and peridontal disease.

lower respiratory tract infection and pyrexia. The only findings of statistical significance were that FIV-positive cats were more likely to have died irrespective of cause and that dual infection with

FelV and FIV correlated with the presence of anemia. Although limited numbers and the lack of an etiologic diagnosis limited interpretation in some disease categories, it was concluded that no single

clinical syndrome studied could be firmly associated with HIV infection. Considering the high prevalence in the healthy West Australian population, the role of HIV in the pathogenesis of disease

in the sick cat population is likely to be subtle

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658 FIV OR FIVS

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2 FIV (W) 141

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L2 2 DUP REM 11 (DUPLICATES REMOVED)

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L2 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 2001 73378 CAPLUS

DN 134 130264

T1 Feline immunodeficiency virus (FIV) vaccine composition for cat immunization

IN Deng, Rutang, Fauc, Eric Douglas, Jebaratharan, Suresh, Koelgen, William D., Johnson, Anthony Fay, Loh, Mark Brian, Sheppard, Michael George, Weller, David Walter, Yale, Teresia Dolores

PA Pfizer Products Inc., USA

SO Jpn Kokai Tokkyo Koho, 45 pp

DT Patent

CO DEN, JKKXAF

LA Japanese

FAN CNT 1

PATENT NO KIND DATE APPLICATION NO DATE

PI JP 2001025392 A2 20010130 JP 2000-184554 20000614

EP 1074625 A2 20010207 EP 2000-304924 20000609

EP 1074625 A3 20020102

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PR AUS 1999-138999 P 19990614

L2 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS

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T1 Novel feline immunodeficiency virus (FIV) and composition for protecting animal from lentivirus-related disease

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PI JP 2000116386 A2 20000425 JP 1999-236845 19990824

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- L11 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2002 ACS
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